



**Espacenet**

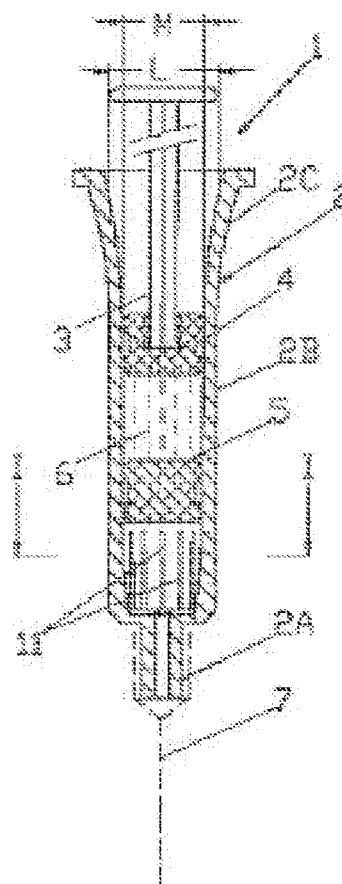
## Bibliographic data: JP 9225029 (A)

### INJECTOR AND ITS MANUFACTURE

**Publication date:** 1997-09-02  
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**Applicant(s):** MATERIAL ENG TECH LAB INC +  
**Classification:**  
 - **international:** **A61M5/178; A61M5/31;** (IPC1-7): A61M5/178; A61M5/31  
 - **European:**  
**Application number:** JP19960063714 19960226  
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### Abstract of JP 9225029 (A)

**PROBLEM TO BE SOLVED:** To enable previous mounting of an injection needle at an injection port without disturbing high pressure steam sterilization and filling of an injection agent into an outer cylinder with nearly no mixed air by arranging the outer cylinder as a thermoplastic resin molded product with the inner diameter of a gasket insertion opening part larger than the inner diameter of a sliding part of the gasket. **SOLUTION:** An insertion opening part 2C of a gasket 4 of an outer cylinder 2 has its inner diameter L larger than the inner diameter M of a sliding part 2B of the gasket 4. More concretely, the insertion opening part 2C of the gasket 4 is a thermoplastic resin molded product which is formed by expanding gradually. Gradually tapered expansion is not necessary as the shape of the opening part 2C. It suffices that air in the outer cylinder 2 can escape from a gap between the gasket 4 and the inner wall of the outer cylinder 2 when the injection agent 6 is housed and sealed by the gasket 4. A plug body 5 is arranged at a sliding part 2B of the outer cylinder 2 spaced at an interval from an injection port 2A avoiding a ridge rib 11 and the injection agent 6 undergoes a steam sterilization to be housed into the outer cylinder 5 between the gasket 4 and the plug body 5.



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